

Exhibit A

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January 11, 2023

By Email

Artie McConnell
Mark E. Misorek
Miranda Gonzalez
U.S. Attorney's Office
Eastern District of New York
271 Cadman Plaza East
Brooklyn, New York 11201

Re: Ronald Washington First Expert Notice

Dear Mr. McConnell, Mr. Misorek and Ms. Gonzalez:

We write pursuant to Federal Rule of Criminal Procedure 16(b)(1)(C) to provide notice that the defense intends to offer testimony at trial from Dr. Geoffrey Loftus.

Dr. Loftus is an experimental psychologist with expertise in human memory, visual perception, and eyewitness identification. He has researched and written on these subjects for approximately fifty years. Dr. Loftus received his B.A. in Experimental Psychology from Brown University in 1967 and his Ph.D. in Experimental Psychology from Stanford University in 1971. He has been on the faculty of the University of Washington Department of Psychology since 1972. Dr. Loftus is a member of several professional associations, including the American Psychological Society and the Association for Research in Vision and Ophthalmology. He has been qualified to testify as an expert on the subjects of memory, perception, and the reliability of eyewitness testimony more than 400 times in numerous state and federal courts. His research has been published in many books and journals, including the *Journal of Experimental Psychology*, *American Psychologist*, *Memory & Cognition*, and the *Psychonomic Bulletin & Review*. He has served as an editor or on the editorial boards of several journals—*Memory & Cognition*, *Cognitive Psychology*, the *Journal of Experimental Psychology*, *Psychological Science*, and *Psychological Review*. During his career, Dr. Loftus has received more than \$3.5 million in continuous grant funding from the National Science Foundation, the National Institute of Mental Health, the University of Washington, and the Institute for Learning and Brain Science for his research on visual perception and human memory. Dr. Loftus's curriculum vitae is enclosed as Exhibit A.

The defense expects that Dr. Loftus will testify generally about the science of human perception and memory, the reliability of eyewitness identifications, and the dependability of eyewitness identification procedures. The defense anticipates that Dr. Loftus will explain how an eyewitness's memory of an incident might be affected by various factors, including the effect of environmental conditions such as attention, weapon focus, stress, and duration. We also expect him to testify, based on his review of the discovery materials listed below, that those

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environmental conditions could have had an impact on identifications made in this case. We further expect him to testify about concepts related to his research in the field of human memory and perception, including the effect of pre- and post-event information. Prior testimony on these subjects by Dr. Loftus in the Cook County, Illinois case *People v. Marco Lopez* is attached for your reference as Exhibit B.

Dr. Loftus's opinions are based on his training and experience, his extensive research in this field, and on information the government has produced to the defense in this case, specifically, Bates 000001 to Bates 000405.

Dr. Loftus is also expected to testify about the potential unreliability of a photo array procedure including a set of strangers and one person familiar to the witness. His testimony on this subject will be based on fundamental findings in recognition memory research, including his own. *See, e.g.* Reinitz, M.T., Séguin, J.A., Peria, W., & Loftus, G.R. (2012), Confidence-accuracy relations for faces and scenes: Roles of features and familiarity, *Psychonomic Bulletin & Review*, 19, 1085– 1093.

During the previous four years, Dr. Loftus has testified as an expert in the following matters:

People v. Jabulani Williams 595677 – Oakland, CA
People v. Josef Oakes SJPD 12-226-0462 – San Jose, CA
State v. Mustafa Mohamud Arteh 518031290 – Seattle, WA
People v. Gabriel Schroeder – Martinez, CA
People v. Carl Krenkowski 17CR1292601 – Chicago, IL
State v. Brent Walsh 1CPC-17-0001816 – Honolulu, HI
State v. Jordan Smith 17-350730-001 – Honolulu, HI
State v. Shane Patano 19-1-00022-31 – Everett, WA
State v. Angel Franco 188015610 – Seattle, WA
People v. Hector Cosme 18CR015728 – Oakland, CA
People v. Silas Hesselberg 19MI003026 – Sacramento, CA
People v. Tony Thao 18FE007345 – Sacramento, CA
State v. Cory Wade 18-1-00533-3 SEA – Seattle, WA
People v. Odell Jones 17-CR-005837A, B – Oakland, CA

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People v. Stefawn Taylor 19FE014699 – Sacramento, CA

Shawn Williams v. State of New York 132581 – New York, New York

People v. Damien Bolden 19CR6478 – Chicago, IL

Weichel v. Commonwealth of Massachusetts – Boston, MA

People v. Roban Ludford CR1703460B – Eureka, CA

State v. Kilani Derego 1PC101001469 – Honolulu, HI

State v. Robert Harrison 20-1-00852-1 SEA – Seattle, WA

People v. Will Watson 17-CR-003246 – Oakland, CA

State v. Benjamin Woody 21-1-01209-1 – Everett, WA

U.S. v. Murray Hooper, CV-98-2164-PHX-SMM – Phoenix, AZ

State v. Jonathan Fisher 20 1 00904 31 – Everett, WA

Very truly yours,

/s/ Ezra Spilke

Susan G. Kellman

Ezra Spilke

Jacqueline E. Cistaro

Counsel for Ronald Washington

encl.

Expert Approval:

The disclosures contained in this letter are true and correct.



Geoffrey Russell Loftus, Ph.D.

Exhibit A

Geoffrey Russell Loftus

CV (Revised November 7, 2022)

Biographical Data

Born: 1945
Address: [Department of Psychology, Box 351525](#)
[University of Washington](#)
[Guthrie Hall, Room 222](#)
[Seattle, WA 98195-1525](#)
[USA](#)

Communication channels

Office phone: (206) 543-8874
Cell phone: (206) 605-1974
Skype: gloftus45
email: gloftus@uw.edu
Web site: <http://faculty.washington.edu/gloftus>

Education

B.A.: [Brown University, Experimental Psychology](#), 1967
Ph.D.: [Stanford University, Experimental Psychology](#), 1971 (Adviser: [Richard C. Atkinson](#))
Postdoctoral: [New York University](#), 1971-72 (Sponsor: [George Sperling](#))

Employment

Warm-up

1967 [Honeywell Corporation: computer programmer](#) ([machine-code](#) and [assembly-language](#)), [summers](#), 1966,
[Stanford University, Department of Psychology](#): research assistant/teaching assistant, 1967-1971
[New York University](#): postdoctoral research fellow, 1971-72

Permanent

[University of Washington](#): assistant, associate, full, emeritus professor, 1972-present

Visiting

[Stanford University, Department of Psychology](#): visiting professor, [summers](#), 1972, 1979
[National Institutes of Health: National Institute on Aging](#): visiting scholar, [autumn](#), 1986
[MIT, Department of Brain and Cognitive Sciences](#): 1995-1996

Awards and Honors

Fellowships

University Fellow, [Stanford University](#): 1967-70
NSF fellowship, [New York University](#): 1971-72
Visiting Scholar, [Stanford University](#): [autumn](#), 1978, [summers](#), 1979, 1980

NIMH MERIT Award 1989-1999

Research Grants

National Science Foundation	\$31,000	6/73-5/75	Eye fixations
National Science Foundation	\$43,500	6/75-12/77	Short-term memory
National Science Foundation	\$37,660	1/78-5/79	Picture memory

National Science Foundation	\$101,03	6/79-9/82	Picture memory
UW Grad School Research Fund	\$4,962	10/79-6/80	Picture memory
National Science Foundation	\$167,362	10/82-5/86	Visual perception
NIMH	\$202,096	6/86-5/89	Visual perception
UW Royalty Research Fund	\$24,000	3/96-2/97	Attention
NIMH	\$1,082,187	6/89-8/99	Visual perception (MERIT award)
NIMH	\$650,570	9/99-2/05	Visual perception
Institute for Learning and Brain Science	\$75,202	3/01-6/02	Developmental perception
NIMH	\$1,227,220	3/05-2/11	Visual perception (.pdf)
UW Royalty Research Fund	\$35,000	3/13-2/14	Visual perception

Professional Memberships

[American Association for the Advancement of Science](#) (Fellow)
[American Psychological Society](#) (Fellow)
[Association for Research in Vision and Ophthalmology](#)
[Psychonomic Society](#) (Publications Board 1997-2001)
[Society for Computers in Psychology](#) (President 1983-84)
[Society of Experimental Psychologists](#)

Other Professional Experience

Grant reviewing

NIMH Basic Behavioral Processes Study Section (1983-1987)
NIMH Cognition and Perception Study Section (2003-2007)
Ad hoc reviewer for numerous other granting agencies in the U.S. and elsewhere

Journal editorships

Editor: [Memory & Cognition](#) (1993-1997)
Associate Editor, [Cognitive Psychology](#) (1975-1996; 1999-2006)

Journal editorial boards:

[JEP: Learning, Memory, and Cognition](#) (1977-1988; 2000-2002)
[JEP: General](#) (1977-1990)
[Psychological Science](#) (1999-2004)
[Psychological Review](#) (2004-2011)

Consulting work

[Permitted to testify as an expert witness](#) on perception, memory, statistics, and video-game behavior in approximately 490 civil and criminal cases (1980-present). Testimony admitted in,
Superior Courts: 64 counties in Alaska, Arizona, California, Colorado, Illinois, Indiana, Hawaii, Massachusetts, Michigan, Montana, Nevada, New Jersey, New York, Oregon, Washington, Wyoming
Federal Courts: Anchorage, AK; Chicago, IL; El Paso, TX; Kansas City, MO; Newark, NJ; Philadelphia, PA; Sacramento, CA; San Francisco, CA; Tacoma WA; Tucson, AZ; Yakima, WA
U.S. Military Court: U.S. Navy, Sigonella, Italy
Canada: Winnipeg, Manitoba

Publications

Books

Loftus, G.R., & Loftus, E.F. (1976). [Human Memory: The Processing of Information](#). Hillsdale, NJ: Lawrence Erlbaum Associates.
Loftus, G.R., & Loftus E.F. (1982). [Essence of Statistics](#). Monterey: Brooks-Cole.

- Loftus, G.R., & Loftus, E.F. (1983). *Mind at Play: The Psychology of Video Games*. New York: Basic Books.
- Loftus, G.R., & Loftus, E.F. (1987). *Essence of Statistics, 2nd Edition*. New York: Random House.
- Savageau, D. & Loftus, G.R. (1997). *Places Rated Almanac*. New York: McMillan.
- Smith, E.E., Nolen-Hoeksema, S., Fredrickson, B., & Loftus, G.R. (2003). *Hilgard's Introduction to Psychology, Fourteenth Edition*. Belmont, CA: Wadsworth.
- Nolen-Hoeksema, S., Fredrickson, B., Loftus, G.R., & Wagenaar, W. (2009). *Hilgard's Introduction to Psychology, Fifteenth Edition*. London, UK: Cengage.
- Nolen-Hoeksema, S., Fredrickson, B., Loftus, G.R., & Lutz, C.I., (2013). *Hilgard's Introduction to Psychology, Sixteenth Edition*. Andover, UK: Cengage.

Articles and Chapters

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- Klatzky, R.L., & Loftus, G.R. (1969). Recognition memory as influenced by number of reinforcements and type of test. *Psychonomic Science*, 16, 302-303. ([pdf](#))
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- Rundus, D.J., Loftus, G.R., & Atkinson, R.C. (1970). Immediate free recall and three-week delayed recognition. *Journal of Verbal Learning and Verbal Behavior*, 9, 684-688. ([pdf](#))
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- Loftus, G.R. (1971). Comparison of recognition and recall in a continuous memory task. *Journal of Experimental Psychology*, 91, 220-226. ([pdf](#))
- Loftus, G.R. (1972). Eye fixations and recognition memory for pictures. *Cognitive Psychology*, 3, 525-551. ([pdf](#))
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- Loftus, E.F., & Loftus, G.R. (1974). Changes in memory structure and retrieval over the course of instruction. *Journal of Educational Psychology*, 66, 315-318. ([pdf](#))
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- Loftus, G.R. & Loftus, E.F. (1974). The influence of one memory retrieval on a subsequent retrieval. *Memory and Cognition*, 2, 467-471. ([pdf](#))
- Loftus, G.R., & Bell, S.M. (1975). Two types of information in picture memory. *Journal of Experimental Psychology: Human Learning and Memory*, 104, 103-113. ([pdf](#))
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- Loftus, G.R., & Patterson, K.K. (1975). Components of short-term proactive interference. *Journal of Verbal Learning and Verbal Behavior*, 14, 105-121. ([pdf](#))
- Dark, V.J., & Loftus, G.R. (1976). The role of rehearsal in long-term memory performance. *Journal of Verbal Learning and Verbal Behavior*, 15, 479-490. ([pdf](#))
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- Bernstein, D.M., Loftus, G.R., & Meltzoff, A.N. (2004). Object identification in preschool children and adults. *Developmental Science*, 8, 151-161. ([pdf](#))
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- Loftus, G.R. (2010). The null hypothesis. *Encyclopedia of Research Design*: Sage Publications. (in press) ([pdf](#))
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- Loftus, G.R. (2010). Processi Cognitive, testimonianza dell'esterto e teorie su eventi di pertinenza legale. *Sistemi Intelligenti a. XXII, n. 2, Agosto 2*. ([pdf](#)) (English Translation: Cognition, expert testimony, and theories of legally relevant events). ([pdf](#))
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Invited Addresses

1972

[University of Oregon](#), Eugene, OR

[New York University](#), New York, NY

[Bell Telephone Laboratories](#), [Murray Hill](#), NJ

[State University of New York, Oswego](#), NY

[Brown University](#), Providence, RI

[University of Pennsylvania](#), Philadelphia, PA

1974

[National Academy of Sciences Specialists Meeting](#), Princeton, NJ

1975

[University of California, Irvine](#), CA

[University of Wisconsin, Madison](#), WI

[Temple University](#), Philadelphia, PA

[University of California, Los Angeles](#), CA

[University of Toronto](#), Toronto, ON, Canada

1976

[Simon Fraser University](#), Burnaby, BC, Canada

[University of Oregon](#), Eugene, OR

[Interdisciplinary Conference](#), Jackson Hole, WY

[Advanced Projects Research Agency](#) Conference on C3 Systems, Cambridge, MA

[Advanced Projects Research Agency](#) Conference on Cartography, San Francisco, CA

1977

[University of California, San Diego](#), La Jolla, CA

[University of Rochester](#), Rochester, NY

[Simon Fraser University](#), Burnaby, BC, Canada

[University of California, Irvine](#), CA

1978

[Center for Advanced Studies in the Behavioral Sciences](#), Stanford, CA

[University of Michigan](#), Ann Arbor, MI

[Swarthmore College](#), Swathmore, PA

[University of California, Berkeley](#), CA

[NASA/Ames](#), Mountain View, CA

1980

[University of Denver](#), Denver, CO

1981

[University of Lethbridge](#), Lethbridge, Alberta, Canada

[Stanford University](#), Stanford, CA

[British Psychology Society](#), Plymouth, England

Craik Society, Cambridge University, Cambridge, England

[Copenhagen University](#), Denmark

Sloan Conference on Reading, Amherst, Mass.

[Yale University](#)

1982

[University of Utah](#)

[Max Planck Institute, Berlin](#), Germany

[NASA/Ames](#), Mountain View

1983

[University of California, Santa Cruz](#), CA

[Max Planck Institute, Berlin](#), Germany

1984

[Stanford University](#), Stanford, CA
[University of Toronto](#), Toronto, CA
[Society for Computers in Society](#) (Presidential address), San Antonio, TX
[Arizona Public Defender's Office, Tucson](#), AZ
 California State College System, Courseware Conference, San Francisco, Ca
[Concordia University](#), Montreal, Canada
[Hebrew University, Jerusalem](#), Israel

1985

[Western Psychological Association](#), San Francisco, CA
[Williams College](#), Williamstown MA
 U.S. Army Conference on C3 Systems, Fort Walton Beach, FL
[University of Toronto](#), Toronto, Canada
[Institute for Perception, Amsterdam](#), the Netherlands
[Leiden University](#), Leiden, the Netherlands
[University of North Carolina, Chapel Hill](#) NC

1986

[Brown University](#), Providence, RI
[Duke University](#), Durham, NC
[IBM Research Labs, Yorktown Heights, NY](#)
 John [Hopkins University](#), Baltimore, MD
[National Institute on Aging](#), Bethesda, MD
 Northwest Courseware Conference, SeaTac, WA
[Simon Fraser University](#), Burnaby, BC, Canada
[SUNY, Stony Brook](#), Stony Brook, NY
[University of Delaware](#), Newark DE
[University of Maryland](#), College Park, MD

1987

[Association of Federal Public Defenders](#), Seattle, WA
[New York University](#), New York, NY
 Society for the Visually Impaired

1988

[University of Alberta](#), Edmonton, Alberta, Canada
[Banff Conference on Cognitive Science](#), Banff, Alberta, Canada
[University of Illinois](#), Champaign, IL
[New York University](#), New York, NY

1989

[New York University](#), New York, NY

1990

Amherst conference on eye movements, Amherst, MA
 Ann Arbor conference on human/machine vision, Ann Arbor, MI
[Boston University](#), Boston, MA
[Leiden University](#), Leiden, the Netherlands
[National Research Council](#) meeting on vision, Irvine, CA
[Stanford University](#), Stanford, CA

[University of Padua](#), Italy

1991

[National Center for Geographic Information and Analysis](#) Conference on Visualization and Spatial Quality, Castine, Maine

[Nuclear Regulatory Commission](#) conference on systems for regulatory research, Livermore, CA

1992

[Child Guidance Center, Tacoma](#), WA

[Western Psychological Association](#), Portland, OR

[Free University, Amsterdam](#), The Netherlands

[Max Planck Institute, Berlin](#), Germany

[Tucson Public Defender's Office](#), Tucson, AZ

[Spokane WA Public Defender's Office](#), Spokane, WA

1993

[Harvard University](#), Cambridge, MA

[Smith-Kettlewell Institute](#), San Francisco, CA

[University of California, Santa Barbara](#), CA

[University of California, Santa Cruz](#), CA

[University of Texas](#), Austin, TX

[Washington Defender's Association](#), Winthrop WA

1994

[American Psychological Association](#)

[Applied Psychology Unit, Cambridge](#), UK

[Brown University](#), Providence, RI

[Stanford University](#), Stanford, CA

[University of St. Andrews](#), St. Andrews, Scotland

[University of Toronto](#), Toronto, Canada

1995

[American Psychological Society](#), New York, NY

[Boston University](#), Boston, MA

[Boston VA Medical Center](#), Boston, MA

[Brown University](#), Providence, RI

[Massachusetts Institute of Technology](#), Cambridge, MA

[Society of Experimental Psychologists](#), Phoenix, AZ

[Tufts University](#), Medford, MA

[Wellesley College](#), Wellesley, MA

1996

[Brandeis University](#), Waltham, MA

[Dartmouth College](#) (Kohler Memorial Lecturer), Hanover, NH

[Indiana University](#), Bloomington, IN

Japanese Educational Psychology Society, Tokyo, Japan

[National Institute of Bioscience and Human Technology, Tsukuba, Japan](#)

[Northeastern University](#), Boston, MA

[Tsukuba University](#), Tsukuba, Japan

[University of Massachusetts](#), Amherst, MA

[Waseda University](#), Tokyo, Japan

1997

[American Psychological Association](#), Chicago, IL
[Birkbeck College, London](#), UK
[Brandeis University](#), Waltham, MA
[City University, London](#), UK
[University of East London](#), London, UK

1998

[American Psychological Association](#), San Francisco, CA
[City of Chicago Corporation Counsel's Office](#), Chicago, IL
 Military Prosecutors Conference, [Everett Naval Base](#), Everett, WA
[Princeton University](#), Princeton, NJ
 Seattle Forensic Institute, Seattle, WA

1999

Cities conference, Rutgers University, New Brunswick, NJ

2000

Alaska Trial Lawyers Convention, Anchorage, AK
[Arizona Trial Lawyers](#) Convention, Long Beach CA
[Microsoft Corporation](#), Redmond, WA

2001

[Society of Counsel Representing Accused Persons](#), Seattle, WA)
[University of Puget Sound](#), Tacoma, WA
[National Science Foundation](#) Conference on Augmented Cognition, Washington DC
[Society of Counsel Representing Accused Persons](#) (Kent, WA)
 Public Defender's Office, Seattle, WA

2002

[Society for the Quantitative Analysis of Behavior](#), Toronto (Invited Preeminent Tutorial)
[Northwest Defenders Association](#), Seattle, WA
[Inns of Court](#), Puget Sound Chapter, Tacoma WA

2003

[Henry Art Gallery](#), Seattle, WA
[University of Victoria](#), Victoria, BC, Canada

2004

[University of Alberta](#), Edmonton, Alberta, Canada
 Washington State Trial Lawyers Association, Seattle, WA

2005

[Society for Applied Research in Memory and Cognition](#), Wellington, New Zealand
[Honolulu Public Defender's Association](#), Honolulu HI
[Western Psychological Association](#), Portland OR

2006

Santa Clara, San Mateo, San Francisco Public Defender Seminar, San Mateo, CA

2008

[MIT](#) Symposium on object recognition, Cambridge, MA
[Giessen University](#), Giessen, Germany

2009

[Society for Applied Research in Memory and Cognition](#), Kyoto, Japan
[Università di Bologna](#), Bologna, Italy

2010

[NOWCAM](#) Conference, Bellingham, WA (Keynote speaker)
[Cook County Public Defender's](#) conference, Oakbrook, IL

2011

[Washington Association of Criminal Defense Lawyers](#), Annual Conference, Chelan, WA
[Society for Applied Research in Memory and Cognition](#), New York, NY

2012-2013

[Inns of Court](#), Puget Sound Chapter, Seattle WA
[Roosevelt University](#), Chicago, IL
[University of Washington Edwards Lecture](#), Seattle, WA

2014

[Syracuse University](#), Syracuse, NY
[Kwantlen Polytechnic University](#), Vancouver, BC, Canada

2015

[Contra Costa County Public Defender's Office](#), Martinez, CA
[District of Hawaii Federal Courts Conference](#), Honolulu, HI

2016

[Canadian Psychological Association](#), annual meeting, Victoria, BC, Canada

2017

[National Seminar on Forensics Evidence and The Criminal Law](#), Seattle WA
[Università di Bologna](#), Bologna, Italy

2018-2021

[University of Melbourne, School of Psychological Science](#), Melbourne, Victoria, Australia
[University of Melbourne, History and Philosophy of Science](#), Melbourne, Victoria, Australia
[University of Sydney, School of Psychology](#), Sydney, NSW, Australia
Illinois Association of Criminal Defense Lawyers, Chicago, IL

Exhibit B

1 A. He was not 100 percent sure it was Marco.

2 Q. Nothing about Marco being a shooter?

3 A. No.

4 MS. GLENNON: I have nothing further.

5 THE COURT: Anything else?

6 MS. LOITERSTEIN: Nothing based on that.

7 THE COURT: Ms. Dupes, you may step down.

8 (Witness excused.)

9 THEE COURT: Defense, call your next witness.

10 MS. GLENNON: Judge, I would call Dr. Loftus.

11 (Witness duly sworn.)

12 THE COURT: You may have a seat. That microphone
13 does not do anything. Ignore it. Please keep your
14 voice up loud and clear so everyone can hear you.

15 DR. GEOFFREY LOFTUS,
16 called as a witness on behalf of the defendant,
17 having been first duly sworn, was examined and
18 testified as follows:

19 DIRECT EXAMINATION

20 BY

21 MS. GLENNON:

22 Q. Dr. Loftus, would you please introduce
23 yourself to the ladies and gentlemen.

24 A. My name is Geoffrey Loftus. My first name

1 is spelled G-e-o-f-f-r-e-y, last name L-o-f-t-u-s.

2 Q. And, Dr. Loftus, what do you do for a
3 living?

4 A. I am a professor in the department of
5 psychology at the University of Washington out in
6 Seattle.

7 Q. How long have you been a professor in
8 Seattle?

9 A. Since 1972, so a lot of years.

10 Q. What is your educational and professional
11 background?

12 A. I got a Bachelor of Arts degree in
13 experimental psychology from Brown University, a
14 doctorate and Ph.D in experimental psychology from
15 Stanford University, then I went to New York for a
16 year of post-doctoral work at New York University,
17 University of Washington as a faculty member in
18 1972.

19 And apart from a year in the mid '90s that
20 I spent teaching at MIT, I pretty much been at the
21 University of Washington ever since.

22 Q. Doctor, as a faculty member of the
23 University of Washington, do you do research?

24 A. Yes, I do.

1 Q. And what is your general area of research?

2 A. So my main research area has to do with
3 human perception. That's the study of how people
4 get information from the world into their brain by
5 their sense organs, ears, eyes and so on.

6 The associate study of human memory.
7 That's the study of how information, once it's
8 gotten into the brain, is stored there, transformed
9 in various ways and then eventually used for any
10 task that requires memory which is most things that
11 we do.

12 I also have a secondary research interest
13 that takes up maybe 20 percent of my time that has
14 to do with applications of mathematics and
15 statistics to science in general and to psychology
16 in particular.

17 Q. Doctor, can you explain the difference
18 between experimental psychology and/or clinical
19 psychology?

20 A. Sure. As your question sort of suggests,
21 the field of psychology is broadly divided into
22 clinical psychology on the one hand and experimental
23 psychology on the other.

24 So a clinical psychologist is probably, you

1 know, like most people's, I imagine, of a
2 psychologist. A clinical psychologist is a
3 practitioner, somebody who sees clients with the
4 intent of dealing with some sort of psychological
5 problem, fear of snakes, marital difficulties,
6 whatever.

7 Experimental psychologists like me, on the
8 other hand, isn't a practitioner. I never seen
9 clients. I never will.

10 Instead, an experimental psychologist is
11 fundamentally a scientist, somebody whose main jobs
12 are to go out and do experiments, collect data, and
13 develop theory in an effort to understand how normal
14 people operate.

15 In my case, to understand how normal people
16 get information from the world into their brains,
17 store it there, and use it later on.

18 Q. Have you published research with respect to
19 experimental psychology?

20 A. I have. I have authored and co-authored
21 maybe eight books being somewhere around 100 book
22 chapters in journal articles. Most of them have to
23 do with my main research area of human perception
24 memory. There are a bunch of others that I have

1 written that have to do with my minor research area
2 of applications of mathematics and statistics.

3 Q. Dr. Loftus, do you also lecture and do
4 other various things with respect to your expertise
5 for your field?

6 A. Apart from teaching, I lecture all the
7 time. I have been invited over the years maybe 150
8 times by various universities and other
9 organizations to talk about the research that I have
10 done and applications of it to various practical
11 issues like eyewitness memory, for instance.

12 Q. Have you also, through your experience in
13 experimental psychology, testified before in court?

14 A. Yes.

15 Q. Can you estimate for me the number of
16 times you testified in court?

17 A. Maybe 400.

18 Q. When I say testified in court, were you
19 qualified as an expert in each and every one of
20 those instances?

21 A. Yes.

22 Q. You were qualified as an expert in what?

23 A. Human perception and memory.

24 Q. Have you always testified for the defense?

1 A. Well, my general practice is to work for
2 whoever asks me to work for them and not work for
3 people who don't. Over the years, I mostly in
4 criminal cases, been called by defense attorneys. I
5 have been called by the State four times; and three
6 of those times, the cases settled before I had a
7 chance to do anything about them.

8 The fourth case, which was a murder case,
9 are in Anchorage Alaska. Last year I did wind up
10 testifying on behalf of the State.

11 Q. And are you being paid for your time here
12 today?

13 A. I am. I charge Cook County \$250 an hour
14 for any casework that I do, including legal casework
15 like this.

16 Q. Have you ever testified in civil matters?

17 A. I have. Many fewer times civil matters
18 seem to settle before trial; but, yes, I have
19 testified in civil matters.

20 Q. Have you ever worked on behalf of police
21 departments?

22 A. I have. I worked on behalf of police
23 departments actually in criminal cases in New York
24 City and in New Jersey and Las Vegas as well.

1 I have worked for prosecutors or offices
2 that in one way or another defend police officers
3 who were accused of various misdeeds. I have done
4 that here in Cook County and also in Kane County
5 where Seattle is.

6 MS. GLENNON: Judge, at this time I would seek
7 to qualify Dr. Loftus as an expert in the field of
8 experimental psychology.

9 THE COURT: State, any objection?

10 MR. CROWE: No.

11 THE COURT: Dr. Loftus will be received in the
12 field of experimental psychology.

13 BY MS. GLENNON:

14 Q. Doctor, have you brought various notes and
15 or a report with you today?

16 A. Yes.

17 Q. Would those aid you at all in your
18 testimony?

19 A. I don't think so. Thanks.

20 Q. I have an easel set up. Was that at your
21 request?

22 A. It was.

23 Q. Would you like to explain some of your
24 testimony through a visual demonstration with the

1 jury?

2 A. Well, what I was planning to do with this
3 easel, as I have discussed, is to provide for the
4 jury sort of a general depiction of how memory
5 works.

6 Would that be okay if I stepped down and
7 did that, your Honor?

8 THE COURT: Well, if the defense lawyer asks a
9 question and if the other side objects, I will.

10 MS. GLENNON: If the State has no objection, I
11 will ask that Dr. Loftus be allowed to step down to
12 the easel that I have set up for him.

13 THE COURT: State, any objection?

14 MR. CROWE: No.

15 THE COURT: You may position yourself where you
16 could see the easel.

17 BY MS. GLENNON:

18 Q. Dr. Loftus, could you describe to the
19 ladies and gentlemen how perception and memory work?

20 A. It's a bit complex. I could lecture on it
21 for weeks. I am sure you don't want me to do that.

22 What I could do instead is to provide sort
23 of a simple depiction of some of the main aspects of
24 human perception and that I think are most relevant

1 to the legal issues you guys are dealing with here.

2 Q. Before you begin, you have actually
3 reviewed police reports, interviews, and all sorts
4 of documents with respect to Marco Lopez?

5 A. Yes, which provided me a general sense of
6 what aspects of perception and memory are relevant
7 here.

8 Q. Could you describe for us how memory works?

9 A. So what I will do is two things. The first
10 is that I will intend to draw sort of a box and
11 diagram a box and diagram providing a general idea
12 of things that are relevant here and then to make it
13 a little more comprehensible to the jury.

14 I make up a hypothetical example to
15 illustrate what I have drawn.

16 MR. CROWE: Your Honor, I will object. I believe
17 that the testimony in the form --

18 THE COURT: How we work here is a lawyer asks a
19 question and the witness gives an answer. So if we
20 could proceed on that basis, please.

21 BY MS. GLENNON:

22 Q. Doctor, what is an original event?

23 A. An original event is any event at issue
24 that is experienced by a witness. It could be a

1 crime like the one that's at issue here. It could
2 be a wedding, basketball game. It could be a car
3 accident. It could be anything.

4 Q. What is an eventual memory for the event?

5 A. At the end of the line, any witness to this
6 event has a memory for the event.

7 Q. Are events and memories of the event both
8 forms of information?

9 A. Yes. So as you say, you could think of the
10 event as being an information, lots and lots of
11 information. The information takes on different
12 forms. The visual information sound waves carry
13 auditory information and so on, but it's all
14 information.

15 Likewise, any eventual memory the witness
16 has is also made up of information. It's
17 information that's represented differently. It
18 takes the form of neuro connections and electrical
19 activity, but it's still information.

20 Q. What is different between reliable and
21 unreliable information?

22 A. Well, in order to describe that, I have to
23 talk a little bit more about how information is
24 relevant to the original event, gets into memory, if

1 I could do that.

2 Q. Is eventual memory made up of two types of
3 information?

4 A. Yes, it is.

5 Q. Could you describe what two types of
6 information that is?

7 A. Sure. The first kind of information is
8 based on what I will call conscious experience.

9 Q. What is conscious experience?

10 A. Conscious experience means just what
11 everybody thinks it means. When you're
12 experiencing something like everybody in this
13 courtroom is experiencing, something now based on
14 sensory data coming in through your sense organs,
15 you form a conscious experience of what it is that's
16 going on.

17 And based on this conscious experience, you
18 could transfer some information from the conscious
19 experience into memory.

20 Q. And what is pre-event information?

21 A. Pre-event information is information that
22 people already have about the way the world works.
23 Pre-information could consist of things like general
24 knowledge about what happens in the world, how the

1 world normally works. It could consist of things
2 like biases or expectations about how the world
3 might work. All of these things could cause
4 pre-event information.

5 Q. Can pre-event information affect memory?

6 A. Yes.

7 Q. How so?

8 A. So the way I have depicted things here,
9 information is transferred from event to memory by a
10 conscious experience, as I have just described it.

11 This root I am going to get to the answer
12 in your question in a second. I have to provide
13 some pre-information. I have depicted this in green
14 as sort of a reminder --

15 MR. CROWE: Objection, narrative.

16 THE COURT: Sustained.

17 BY MS. GLENNON:

18 Q. When you're talking about event information
19 becomes a memory, is there two kinds of information
20 that make up that memory?

21 A. Yes. There is a conscious experience
22 information that I have depicted in green which is
23 usually correct information reflecting what actually
24 happened in the original event what I have called

1 pre-event information.

2 However, bias can alter what your conscious
3 experience is that results from the event. In other
4 words, if you believe that an event you're
5 experiencing is going to happen in a certain way,
6 your perception, your conscious experience of what
7 is happening, can be affected by pre-event
8 information in the form of knowledge or expectations
9 or whatever.

10 Q. Doctor, can you give an example of how
11 pre-event information would affect memory?

12 A. Sure. I could do that by describing an
13 experiment that was done a while back in the
14 laboratory.

15 So in this experiment, people were very
16 quickly shown pictures of playing cards, standard
17 issue playing cards. So they will see of jack of
18 diamonds, ace of spades and so forth and so on.

19 Their job is to report the color of the
20 cards are that they see even though those cards are
21 shown very quickly, maybe hundreds of a second.
22 When you see jack of diamonds, it's red and so on.

23 However, in this experiment, the trick was
24 that some of those cards were in the incorrect

1 color. So the ace of spades might be shown in red.
2 The jack of diamonds might be shown in black every
3 now and then one of those off color cards would show
4 up.

5 Q. What did that do with respect to the
6 persons that were the subject of this study?

7 A. So the result of that is that the subjects
8 in this experiment did not see those off colored
9 cards either as the color they actually were read.

10 Let's say in the case of a red ace of
11 spades or the color that they thought should be
12 black, in that case, red of ace of spades.

13 What they saw was sort of a blend reported
14 seeing a sort of brownish. What that demonstrates
15 is that their actual conscious experience was a
16 mixture of the actual sensory data coming in a red
17 ace of spades on the one hand and what they expected
18 the color of this card to be, namely, black because
19 it was ace of spades. So that is an example and
20 there are others of how pre-event information can
21 bias what you are.

22 Q. Is there something called post-event
23 information that could also affect a person's
24 memory?

1 A. Yes. Post-event information, as the term
2 suggests, is information that comes along after the
3 event itself is over that is one way or another
4 relevant to the event.

5 Q. Can you give an example of a post-event
6 piece of information that would affect memory?

7 A. Sure. I could do it by describing briefly
8 an experiment back in the laboratory.

9 So in this experiment, subjects were shown
10 a movie of a car accident, two cars colliding with
11 one another. After the film was over, they were
12 asked a lot of questions about this accident that
13 they had just witnessed.

14 So as is often done in scientific
15 experiments, the group of subjects who had seen the
16 film were randomly divided into two groups. Those
17 two groups were treated identically except for one
18 phrase in one of the many questions they were asked.

19 So one of the groups was asked with respect
20 to the speed of the cars, how fast were the cars
21 going when they hit each other. The other group was
22 treated identically except they were asked how fast
23 were the cars going when they smashed into each
24 other.

1 The first sequence of this difference
2 between two groups is that people asked about speed
3 using the word smashed gave a higher speed estimate.
4 It's interesting. It tells you the fact about
5 leading questions.

6 Q. So, for example, if a police officer asked
7 leading questions of a witness as opposed to an open
8 ended question, could that create a post-event
9 information or post --

10 A. Right. It could certainly and does
11 affect --

12 MR. CROWE: Objection.

13 THE COURT: Overruled.

14 THE WITNESS: -- the leading questions of this
15 sort that I have just described certainly can affect
16 the answer that a witness or a subject in the
17 experiment will give; but I have not described what
18 post-event information comes into play yet.

19 In this experiment that I have just
20 described, there was a second case. A week later
21 everybody came back to the laboratory and they were
22 asked some additional questions about --

23 MR. CROWE: Objection, narrative.

24 THE COURT: Sustained.

1 BY MS. GLENNON:

2 Q. When you say they were all brought back,
3 are you saying the two separate groups were brought
4 back to the laboratory?

5 A. Yes.

6 Q. The ones that were asked the leading
7 questions, the smash versus the ones that were not?

8 A. Yes.

9 Q. When all those witnesses came back into the
10 lab, what, if anything, did you notice?

11 A. Well, they were asked additional questions.

12 Q. Such as?

13 A. The accident that they had seen. One of
14 the questions, the key one was, did you see any
15 broken glass?

16 Now, as it turns out, there hadn't been any
17 broken glass in the original experiment. So the
18 correct answer to this question would have been no;
19 but the subjects who had originally been asked about
20 speed using the verb smash, were considerably more
21 likely to falsely report that there was broken
22 glass than were subjects who were asked about speed
23 using the word hit.

24

1 So the explanation is that way back at the
2 beginning, the verb smashed acts as a source of
3 post-event information. It was subtle. It was
4 embedded within a question; but, nevertheless, it
5 provided information to the people who heard it that
6 this had been a violent accident in which two cars
7 smashed together which then led them to add to their
8 memory details that were consistent with a violent
9 accident in which two cars smashed together, details
10 like broken glass which is how that broken glass
11 showed up --

12 MR. CROWE: Objection, narrative.

13 THE COURT: Sustained.

14 BY MS. GLENNON:

15 Q. Dr. Loftus, are there or have you seen in
16 your clinical or your experimental laboratory
17 examples of post and pre-event information tainting
18 someone's memory of an event?

19 A. Sure. I have just given you two examples
20 of it. Such examples have been in the scientific
21 laboratory and they happen in real life.

22 Q. Is it possible, in your experience, for
23 people under the right circumstances to confidently
24 remember things that differ from an actual event?

1 A. Yes.

2 MR. CROWE: Objection, form.

3 THE COURT: That's overruled.

4 BY MS. GLENNON:

5 Q. How could a person confidently remember
6 something that's different from reality?

7 A. This brings us back to post-event
8 information, which I said a couple minutes ago, and
9 it often is entered into the witness's memory to
10 supplement the often small amount of conscious
11 experience information that was there to begin with.

12 Q. Could that subsequently cause a witness to
13 confidently misidentify the perpetrator of a crime?

14 A. Yes. Part of what post-event information
15 is by definition is that --

16 MR. CROWE: Objection, narrative.

17 THE COURT: So the record should reflect that Dr.
18 Loftus is back on the witness stand.

19 Counsel, are you done with the easel?

20 MS. GLENNON: Yes, Judge.

21 THE COURT: Are you going to mark that as an
22 exhibit?

23 MS. GLENNON: I would like to. It would be
24 Defense No. 22.

1 THE COURT: Why don't you re-ask your question.

2 BY MS. GLENNON:

3 Q. Is it a real life consequence that a
4 witness could competently misidentify the
5 perpetrator of a crime?

6 A. Yes.

7 Q. Based on the information you just gave to
8 the jury about pre and post events affecting memory?

9 A. Yes. What's critical in terms of your
10 answering your question is that post-event
11 information is information that is of --

12 MR. CROWE: Objection, narrative.

13 THE COURT: Overruled.

14 THE WITNESS: Due to accuracy, most of that
15 information could be true. It could also be false.
16 So in a situation like this, the witness in my
17 example has a memory that has an enormous amount of
18 information in it about the event.

19 Based on all this information, the witness
20 could make a very confident description about what
21 they remember happening; but unbeknownst to the
22 witness, this confident description is based on a
23 memory that although details strong and reel seeming
24 is a memory that is potentially false in important

1 respects because it is largely made up of post-event
2 information whose accuracy is, as I said, dubious.

3 Q. Can you give examples of when memory tends
4 to be inaccurate?

5 A. There are three circumstances under which
6 somebody's memory, or at least their report of what
7 happened, can be inaccurate. I could go through
8 those one by one.

9 Q. What is the first one?

10 A. So the first set of circumstances has to do
11 with what's going on at the time that the original
12 event is taking place. There are often factors at
13 play that diminish the amount of generally accurate
14 green root conscious experiment information that a
15 person could get into their memory.

16 Q. Is lighting?

17 A. Yes.

18 Q. Duration?

19 A. How long the event takes would be such a
20 factor.

21 Q. What about a lack of attention on the part
22 of a witness to a particular appearance?

23 A. That would also be relevant.

24 Q. Is there a kind of initial memory that can

1 change into, or morph into, an eventual memory that
2 is inaccurate?

3 A. Given some of those factors and other that
4 are at play, a witness can begin with a memory, an
5 original memory that is hazy. It's filled with
6 holes, and it is exactly this kind of memory that
7 can eventually morph into the kind of memory I just
8 described, that is very complete, very detailed,
9 real seeming and confidence evoking and a memory
10 that is potentially false. So that's the first set
11 of circumstances.

12 Q. Is there also a second set of circumstances
13 dealing with the retention interval that a person
14 has when an event ends and when they're asked to
15 recall about it?

16 A. Yes.

17 Q. Is that also a factor?

18 A. Yes.

19 Q. How so?

20 A. Two things that could happen. There's
21 normal forgetting. So any generally green root
22 conscious experience information originally in
23 memory can decay away.

24 Q. Can you talk about a time frame for that?

1 A. Yes. Decay of information is a relatively
2 slow process. It's generally about a year before
3 all the well learned visual information in memory is
4 forgotten.

5 Q. You're aware in this case that it was
6 within 24 hours that the eyewitness made an
7 identification?

8 A. Yes. The other thing that could go on
9 during that interval, however, is that during that
10 time, that the witness can supplement their original
11 memory with potentially incorrect post-event
12 information to the degree that that post-event
13 information is false.

14 Then as the witness integrates it, their
15 memory becomes more stronger, more detailed, more
16 complete; but at the same time less accurate. So
17 that's the second set of circumstances.

18 Q. I believe you talked about procedures or
19 the process of gaining the information. For
20 example, leading questions, the examiner's bias,
21 those kinds of things.

22 Is there an impact that those leading
23 questions and a biased interviewer that would affect
24 the final --

1 A. Yes, there is. We already talked about
2 that in conjunction with the car crash experiment
3 that I described.

4 THE COURT: Ms. Glennon, is this number three?

5 MS. GLENNON: That was number three.

6 THE COURT: This is number three.

7 BY MS. GLENNON:

8 Q. The nature of the process?

9 A. So, right, the nature of the process used
10 to extract information from the witness's memory can
11 both, under some circumstances, bias the witness in
12 terms of what they say happened.

13 Like if you ask how fast were the cars
14 going when they smashed, and the bias in such
15 procedures can also act as a source of post-event
16 information as we saw the verb smash do in the
17 experiment that I described a couple minutes ago.

18 Q. I can anticipate questions about proceeding
19 acquaintance versus a stranger.

20 How does that impact a person's memory of
21 an event if they're acquainted with the person
22 they're asked to recall information about as opposed
23 to the stranger?

24 A. So when you see a stranger, you, of course,

1 have to construct a memory of what the stranger
2 looks like from scratch. When you see a person that
3 you know or you believe you do, all you have to do
4 to recognize them is match the appearance of the
5 person who you're looking at with a pre-stored
6 representation of what they looked like in long-term
7 memory.

8 So that is an easier process. It's more
9 efficient than constructing a memory from scratch of
10 a stranger, but those two processes are processes
11 that are subject to error.

12 Q. Just because an individual is attempting to
13 recognize someone versus identify a stranger, is it
14 your testimony that that doesn't make it any less
15 accurate?

16 A. Well, what I am saying is that it is
17 perfectly possible in most people have the
18 experience of misrecognizing a stranger as somebody
19 that you know only to discover very quickly that the
20 person you have misrecognized is, in fact, a
21 stranger and coming to the conclusion that you have
22 made a mistake.

23 Q. But doesn't that scenario that you have
24 just given the ladies and gentlemen deal more with

1 factors like distance, lighting, duration, all of
2 those factors?

3 A. So misrecognizing a stranger is more likely
4 to take place under the kind of circumstances that
5 we've talked about over here. So if the lighting
6 isn't good, if the time is short, if the witness is
7 not paying attention to exactly what the person
8 looks like and so on, those are the circumstances
9 under which a witness could potentially misrecognize
10 a stranger as being somebody they know.

11 Q. So with respect to the case of Marco Lopez,
12 you were given witness information from Jose Angel
13 Herrera, correct?

14 A. Yes.

15 Q. And through your review of the information
16 that I provided you, did you learn whether or not
17 Jose Angel Herrera knew Marco Lopez?

18 A. Yes, he did.

19 Q. What did you learn?

20 A. That he, in fact, knew him.

21 Q. Did you learn about any pre-event
22 information with respect to this case, events that
23 happened before the shooting on March 18th of 2014
24 shortly after midnight that may have impacted Jose

1 Angel Herrera's memory?

2 A. Yes.

3 Q. Can you tell the ladies and gentlemen what
4 you learned?

5 A. Well, my understanding is that there were
6 conversations in which the witness had either
7 engaged in or had overheard that suggested that the
8 defendant, Mr. Lopez, had it in for the --

9 MR. CROWE: Objection.

10 THE COURT: I suppose we need a side bar.

11 (Whereupon the
12 followings proceedings
13 were had in a side-bar
14 conference):

15 THE COURT: What's the basis for the objection?

16 MR. CROWE: He's testifying as to -- he's making
17 conclusions regarding evidence that isn't in
18 evidence. He's testifying. He's making a
19 conclusion about something that he has no direct
20 knowledge of.

21 THE COURT: Well, that's what experts do.

22 What's your position?

23 MR. CROWE: It's not in evidence.

24 MS. GLENNON: I believe he was provided

1 information that there was a conversation that
2 occurred between Marco Lopez and Jose Angel Herrera
3 regarding whether Luis was a snitch. If so, then
4 he was going to get something. That's the
5 conversation they introduced in their case in chief
6 as their motive in this matter. I am trying to
7 ascertain from this witness if that could be a
8 pre-event piece of information that could affect
9 Jose Herrera.

10 THE COURT: Experts are regulated. They could
11 rely on hearsay and things that are not admissible
12 in evidence so long as it's the type of data that an
13 expert in the field ordinarily relies upon.

14 So if you establish that foundation, I will
15 allow it.

16 MS. LOITERSTEIN: The witness said he had it out
17 for him.

18 THE COURT: If it's something that he relied upon
19 and it's something that would affect his opinion,
20 then he could testify to it. If it is something he
21 did not rely upon, then it shouldn't be asked about.
22 If it's asked about, you could cross-examine on it.

23

24

1 (Whereupon the following
2 proceedings were held in
3 open court:)

4 THE COURT: The objection is overruled.

5 Please ask your next question.

6 BY MS. GLENNON:

7 Q. Dr. Loftus, through your review of this
8 case, were you aware that my client, Marco Lopez,
9 had a conversation with Jose Angel Herrera about
10 snitching?

11 A. Yes.

12 Q. Did that event occur prior to this murder?

13 A. That's my understanding, yes.

14 Q. Would you characterize that as one of those
15 pre-event pieces of information that impacts a
16 person's memory?

17 A. Yes.

18 Q. Specifically, Angel Herrera's memory?

19 A. Yes.

20 Q. And were you also provided information in
21 this case with respect to where Angel Herrera was
22 when he made his identification?

23 A. Yes.

24 Q. What did you learn about the place that he

1 was when he made this identification?

2 A. My understanding was that he was inside his
3 apartment looking through a window out onto an area
4 that was close to the entryway of the apartment
5 building.

6 Q. Were you actually shown photographs of the
7 building?

8 A. Yes.

9 Q. Doctor, I am showing you what I have marked
10 as Defense No. 23 for identification.

11 Do you recognize what I am showing you in
12 that photograph?

13 A. Yes.

14 Q. Is that the building where this homicide
15 occurred?

16 A. That's my understanding, yes.

17 Q. Do you see the window that you're referring
18 to when you said Angel Herrera looked out a window?

19 A. Yes. As you look at this photograph, the
20 window is over to the left mostly out of the
21 picture.

22 Q. Would you circle with my pen the area that
23 you're referring to.

24 A. Where the window is?

1 Q. Yes.

2 A. (Indicating.)

3 THE COURT: Did you identify the exhibit?

4 MS. GLENNON: He did.

5 THE COURT: The number.

6 MS. GLENNON: Defendant's No. 23.

7 THE WITNESS: So the window in question is now
8 what I am circling in black.

9 BY MS. GLENNON:

10 Q. In the center of the picture, would that be
11 the front entrance of the building in question?

12 A. That's my understanding.

13 Q. When you made your observations of this
14 photograph, with respect to Angel Herrera's ability
15 to observe the front door, what did you notice?

16 A. Well, there were obstacles that would have
17 prevented anybody on the inside of the apartment
18 looking through the window in question from being
19 able to see the front door.

20 Q. Could you give me an example of the
21 obstacles you're referring to?

22 A. A brick wall that I assume to be pretty
23 permanent. There were also some trash bags and a
24 tree, as I recall.

1 Q. Were you provided any information with
2 respect to the lighting either outside of 1948 North
3 Green or in Jose Angel Herrera's apartment?

4 A. I was, but the information I got was a
5 little bit ambiguous. My best understanding was
6 that at some point that the light inside the
7 apartment was turned on.

8 Q. What significance would that have or might
9 that have?

10 A. Well, in terms of being able to perceive
11 the answers of somebody outside?

12 Q. Yes.

13 A. It's a two-edge sword, and it depends
14 partly on where the light is situated, what the
15 light's illumination is, are we talking about 60
16 watt bulb or whatever but generally speaking there
17 are two consequences.

18 The first sequence is good for being able
19 to perceive. In other words, there is an additional
20 source of light above and beyond what there was
21 before that would illuminate the person outside that
22 would provide the witness to some degree the
23 wherewithal to be able to see what he looks like.

24

1 But when light goes through a window -- and
2 my understanding, by the way -- there is not only a
3 window but an additional piece of plastic.

4 Q. Were you shown photographs of a plastic
5 covering over that sliding glass door that you
6 circled in Defense Exhibit 23?

7 A. Yes. So the light was going through the
8 window and a piece of plastic. So in order for the
9 light inside the apartment to be useful for the
10 witness inside to perceive the appearance of the
11 person outside the light from the lamp, first of
12 all, has to go through both the window and the
13 plastic.

14 It has to bounce off the person's face
15 let's say outside and then the light that bounces
16 off the person's face, that is going to be the light
17 relevant to being able to see what he looks like to
18 the witness and has to make a return journey back to
19 the plastic bag to the window into the witness's
20 eyeball.

21 Q. Now, does the placement of that light
22 inside the apartment matter for what you have just
23 described?

24 A. Sure. Light from a source like a light

1 bulb falls off fairly quickly.

2 Q. How about a floor lamp by the door?

3 A. To the degree that the light is close to
4 the window or the door that the witness is looking
5 out at, it will be the closer. It will be to the
6 relevant object.

7 Q. How about if it were closer to the front
8 door of the apartment versus the sliding glass door
9 that the witness is making his observations?

10 A. Further then it will be worse.

11 Q. Were you provided any information with
12 respect to the lighting outside the apartment?

13 A. I was. I hadn't quite finished about the
14 lighting inside.

15 Q. Go ahead.

16 A. So the light has to make this double
17 journey. It has to go outside, bounce off the
18 person outside, then come back. Each of the media
19 that the light goes through, the glass and the
20 plastic, allows light through. That's what it needs
21 for something to be transparent.

22 Two other things happen. First of all --

23 MR. CROWE: Objection, narrative.

24 THE COURT: Overruled.

1 THE WITNESS: Absorb some of the light and also
2 those media reflects light. So what this means, as
3 the light passes through those two things, once on
4 the way out and then again on the way back, the
5 light will have gone through four different things
6 which means it will have had four different chances
7 to be absorbed by these things and lost.

8 Second, light reflects off those media.
9 The light will reflect off both the door as it
10 leaves the room going outside and then it will
11 reflect off the glass and the plastic again on its
12 way back.

13 The most important sequence of this reflex
14 issue is that from the witness's perspective, what
15 he'll see is partly what's outside being illuminated
16 by the lamp. Partly he'll see a reflex off the
17 window and off the plastic of what's inside.

18 So the witness will essentially wind up
19 with sort of a double exposure. Actually, a triple
20 exposure since there's plastic as well from reflexes
21 coming from inside the apartment and also what is
22 outside.

23 So the reflexes from the witness's
24 perspective of off the glass of what's inside of the

1 apartment will interfere with his ability to
2 perceive anything like the appearance of a person
3 who's outside of the door.

4 Q. With respect to -- let me ask you this:
5 How would lighting outside of the building impact
6 this triple exposure that you just referred to?

7 A. It depends on where the light is. So if
8 there is a light that is, let's say, affixed to the
9 apartment building that is illuminating the face of
10 the person outside, that will help for one thing.
11 That light has to make a one way journey into the
12 apartment.

13 Q. How about if there was a light post in
14 addition to a light on the building?

15 A. This light post that you're talking
16 about --

17 Q. Behind the squawk area.

18 A. Right. So in that case, that light will
19 have the effect of illuminating the portion of the
20 person outside who is away from the witness leaving
21 whatever portion is facing the witness that would be
22 for the witness to be able to perceive and memorize
23 appearance in shadow.

24

1 And, in fact, the brighter the light is the
2 more the witness would be light adapted, blinded, so
3 to speak, by the light; and would essentially, if it
4 were the only thing, that would cause the witness to
5 see the person outside only in silhouette.

6 Q. Were you also given information with
7 respect to the clothing of the person that Angel
8 Herrera said he saw?

9 A. I believe, yes.

10 Q. Do you recall what that was?

11 A. My recollection was that the witness
12 reported that he was wearing a hoody.

13 Q. Was the hoody up or down?

14 A. The hoody was up, as I recall.

15 Q. Would that have any impact with respect to
16 what you were just describing as far as what shadows
17 and illumination of the individual that Angel
18 Herrera was perceiving?

19 A. First of all, the hoody itself would secure
20 part of the answer of the person being looked at.
21 Second, any part of the hoody that is flapping
22 around would cause shadows from whatever light is
23 outside.

24 Q. How does duration and/or attention impact

1 a person's ability to perceive an event?

2 A. So duration will come as no shock effect
3 how much information a person is able to get from an
4 event by upon just experience into their memory. So
5 to the degree that the event lasts a longer time,
6 the witness has a greater opportunity to pay
7 attention to various aspects of whatever it is
8 they're looking at, a person's appearance, let's
9 say, and accurately memorize it.

10 Q. So if the duration is shorter, perhaps
11 seconds, would that impact their ability to
12 correctly make a memory that you just talked about?

13 A. Sure. But what is critical here in terms
14 of assessing duration is not the total physical
15 duration that an event takes but what is referred to
16 as functional duration.

17 Q. What do you mean by functional duration?

18 A. Function signal duration presupposes that
19 there is something important that is going on like
20 who is this person, which means that the witness
21 needs to spend some time if they will know it later
22 on trying to perceive and memorize what the person
23 looks like.

24

1 Functional duration refers to that period
2 of time during which several things are
3 simultaneously through that the person that the
4 witness is looking at is in the witness's field of
5 view, that there is sufficient light for the witness
6 to be able to make out any of the details of the
7 person's facial appearance, the time that the person
8 is close enough to the witness to be able to
9 accurately make out what he looks like, and the time
10 that the witness is actively paying attention to
11 what the person looks like.

12 It's only during that period that all those
13 things are simultaneously true that the witness can
14 use the time to perceive and memorize what the
15 person looks like.

16 So the time that all those things are
17 simultaneously true is what we refer to as function
18 signal duration. So even if, as you say, an event
19 takes a couple of seconds, the functional duration
20 for memorizing a person's appearance could be as
21 short as zero.

22 Q. Did you also learn from your review of this
23 case, that Angel Herrera said initially the person
24 was walking along the sidewalk and turned in his

1 direction and turned back and continued on the path
2 the person was walking?

3 A. That's my recollection.

4 Q. How about with respect to movements in the
5 pocket area or waistband area of the person that
6 Angel Herrera said he saw?

7 A. Sorry. What were you asking me about?

8 Q. Did you learn through your review of this
9 case that Angel Herrera had indicated to the police
10 that he was watching the individual's hands near
11 their pocket or waistband area?

12 A. I do recollect that he said that, yes.

13 Q. How would that impact the functional
14 duration of that perception?

15 A. Well, to the degree that the witness is
16 paying attention to that aspect of the person
17 walking by, he's not paying attention to the
18 persons's appearance. So that would subtract from
19 whatever functional duration was available to the
20 witness.

21 Q. How does expectations impact a person's
22 ability to create a memory?

23 A. Well, we have already eluded to expectation
24 over here when we talked about pre-event

1 information. So one common aspect of pre-event
2 information is a person's expectations about how a
3 particular event might unfold.

4 And as I indicated in my diagram over
5 there, one of the effects of pre-event information
6 in the form of expectations is that to some degree
7 it could influence what a person's conscious
8 experience is of what is going on.

9 Just as in the experiments I described, a
10 person's expectations that the ace of spades is
11 going to be black will influence his perception of
12 an ace of spades that show it's actually red.

13 Q. So in the information you were provided
14 with respect to Jose Angel Herrera and any
15 expectation he might have with respect to Marco
16 Lopez, what did you determine with the information
17 you were provided?

18 A. This is the kind of information that could
19 influence the witness to falsely believe that the
20 witness he saw walking was the person he might
21 reasonably expect to be there, mainly, the defendant
22 as opposed to any stranger. It's a reasonable
23 explanation as far as his sense organs are concerned
24 of who it is that he's looking at.

1 Q. You also touched a little bit earlier on
2 inferences.

3 How would Jose Angel Herrera's pre-event
4 information he had with respect to a conversation
5 with Marco Lopez cause him to maybe later inform
6 that Marco was the person out there that night?

7 MR. CROWE: Objection.

8 THE COURT: Sustained.

9 BY MS. GLENNON:

10 Q. Through the course of your review of this
11 file, I believe you testified earlier that you
12 learned of a conversation between Marco Lopez and
13 the eyewitness Angel Herrera, correct?

14 A. Yes.

15 Q. I believe you characterized that as some of
16 pre-event information you're referring to that could
17 create those false memories?

18 A. Yes.

19 Q. Is there some sort of inferences that could
20 be drawn from that pre-event information on the part
21 of Angel Herrera?

22 MR. CROWE: Objection.

23 THE COURT: Sustained. I don't think he's
24 testified about inferences yet.

1 BY MS. GLENNON:

2 Q. What does an inference have in perception
3 and memory?

4 A. So an inference is a form of post-event
5 information. It's self-generated post-event
6 information.

7 Q. Can you give me an example?

8 A. I could give you an example by describing
9 briefly an experiment from a laboratory. So there
10 have been lots of experiments showing inferences.

11 There this one experiment that I will use
12 as an example. Subjects in the experiments saw a
13 slide show. In this slide show, there were many of
14 them. I will use an example, a slide show that
15 depicted a pretty boring event, namely, a woman
16 walking up and down the aisles of a supermarket
17 doing her shopping.

18 So there were a bunch of slides depicting
19 the sequence of events. That was phase one of the
20 experiments. There was also a phase two.

21 In phase two, subjects were shown a whole
22 bunch of slides, some of which were the ones that
23 they saw in phase one and others were pictures from
24 the supermarket; but the subjects hadn't seen in

1 phase one. The subjects were asked to distinguish
2 which pictures they had seen before versus which
3 pictures they hadn't seen before.

4 Q. Did all of the individuals view that same
5 thing, two separate clips, for lack of a better
6 word?

7 A. Phase One was the study phase and phase
8 two.

9 Q. What did you see as a result of the second
10 slide show? Or

11 A. I have to describe the critical aspect of
12 the test phase which was then. In study phase,
13 there were two successive slides that were critical.

14 The first slide in this example showed the
15 woman, the shopper contemplating a pile of oranges
16 neatly stacked, piles of oranges.

17 The very next slide showed a woman looking
18 very embarrassed. The oranges were scattered all
19 over the floor. So that's what the subjects in the
20 experiment actually saw in the test phase, that
21 there was a slide that showed the woman picking an
22 orange from the bottom of the pile; and it turned
23 out that subjects were very sure that they had seen
24 that exact slide before in the test phase.

1 So the explanation for this finding is that
2 when the subject saw the two successive slides in
3 the study phase, the oranges neatly stacked in the
4 first slide, next slide, oranges scattered all over
5 the floor. The subjects made an inference that what
6 had happened is that the woman picked an orange from
7 the bottom of the pile and apparently stored that
8 inference as if it were true as part of their memory
9 which is why in the test phase they were so sure
10 that they had seen that very slide.

11 So, in other words, the inference they
12 made --

13 MR. CROWE: Objection, narrative.

14 THE COURT: Sustained.

15 BY MS. GLENNON:

16 Q. Doctor, was there an inference from slide
17 one to slide two based on a slide that they had
18 actually seen or was it based on something else?

19 A. Well, based on those two slides, the
20 witnesses evidently made the inference that the
21 woman had picked an orange from the bottom of the
22 pile. It explained what happened in the two
23 successive slides that they saw and stored that
24 inference in part of their memory.

1 Q. Even though they hadn't actually seen that
2 occur?

3 A. Yes.

4 Q. How does that relate to this case?

5 A. So earlier I described, in answer to your
6 questions, how pre-event information could affect
7 the witness's conscious experience of who he was
8 looking at in accord with his expectations of who it
9 might be.

10 Even if that hadn't happened or in addition
11 to that happening, the witness may make the
12 inference after the fact based on the various
13 pre-event information that the person he saw was the
14 defendant. It sort of makes sense. It's just
15 post-event information rather than a false memory
16 that is formed by a pre-event information.

17 In either event, he would be in a position
18 to use his pre-existing knowledge of what the
19 defendant looked like in order to reconstruct his
20 memory of the person he saw walking by the door such
21 that his eventual memory of the person he saw
22 walking by the door came to resemble the defendant,
23 the person he thought likely would have been more
24 than had been warranted by the physical data that

1 was available to him at the time the event was
2 unfolding, the lack of light, lack of time, so on.

3 Q. Now, Doctor, we talked a little bit about
4 competency and accuracy of a witness such as Angel
5 Herrera expresses high confidence in some memory.

6 Should we use that confidence as some
7 evidence that their memory is accurate?

8 MR. CROWE: Objection.

9 THE COURT: Sustained.

10 BY MS. GLENNON:

11 Q. Is there a correlation between a high
12 confidence in memory and accuracy?

13 MR. CROWE: Objection.

14 THE COURT: That will be allowed.

15 THE WITNESS: The correlation between confidence
16 and accuracy, in other words, the general idea that
17 a high confident witness is more accurate than a low
18 confident witness has been investigated in a
19 multitude of study. So for the last -- over the
20 last 50 or 100 years.

21 Q. What do those study shown?

22 A. Those studies have shown -- my answer will
23 be a little complicated. So you will have to bear
24 with me. So the answer is, it depends.

1 If a person gives a highly confident
2 account of their memory of something they
3 experienced, in order to determine whether this high
4 confidence is associated with high accuracy or
5 reflects high accuracy, you have to go back and look
6 at the circumstances that led up to that confident
7 report on the witness's part.

8 If you go back and you discover that the
9 circumstances for forming the original memory were
10 poor, not enough light, not enough time, attention
11 not on what should be relevant and if there is some
12 source of potentially false either pre-event
13 information or post-event information, under those
14 circumstances, contrary to sort of intuition or
15 common sense, high confidence does not necessarily
16 apply to accuracy.

17 If on the other hand, you go back and
18 discover that the circumstances for forming the
19 originally memory require were good, any attention
20 appropriately directed and so on and there is not
21 any potentially falsifying either pre-event
22 information or post-event information, if that is
23 true, then, again, just as a your common sense or
24 intuition would lead you to believe, there is a

1 correlation between confidence an accuracy.

2 If that is the way that the things unfolded
3 under those circumstances, a person who is highly
4 confident is more likely to be --

5 MR. CROWE: Objection, narrative.

6 THE COURT: Sustained.

7 BY MS. GLENNON:

8 Q. Doctor, you have already talked about
9 pre- and post-event information specific to Angel
10 Herrera the witness in this case, correct?

11 A. Yes.

12 Q. And because he had that pre- and post-event
13 information provided to him, how would that impact
14 his confidence or proclamation of confidence?

15 MR. CROWE: Objection.

16 THE COURT: Sustained.

17 BY MS. GLENNON:

18 Q. You testified that pre- and post-event
19 information was provided in this case, correct?

20 A. My understanding was that it was available,
21 yes.

22 Q. And would that impact the confidence and
23 accuracy of that witness or could it --

24 MR. CROWE: Objection.

1 THE COURT: That will be allowed.

2 THE WITNESS: Yes. It could certainly impact
3 the confidence that the witness expresses. As for
4 the accuracy, I can't really say. All I could say
5 is that irrespective of the accuracy, the kind of
6 pre- and post-event information that you have
7 described would have the effects of increasing the
8 witness's confidence that the person that he saw was
9 the defendant.

10 BY MS. GLENNON:

11 Q. Even if those memories were false memories?

12 MR. CROWE: Objection.

13 THE COURT: Sustained.

14 BY MS. GLENNON:

15 Q. Based on the information that you have with
16 respect to Angel Herrera, a witness in this case and
17 his expressions of confidence, must we assume that
18 he's lying?

19 MR. CROWE: Objection.

20 THE COURT: Sustained.

21 BY MS. GLENNON:

22 Q. Suppose that a witness testifies under oath
23 to an identification and they falsely identify
24 someone --

1 MR. CROWE: Objection.

2 THE COURT: Sustained.

3 BY MS. GLENNON:

4 Q. In your opinion, could Angel Herrera be
5 mistaken in his identity?

6 MR. CROWE: Objection.

7 THE COURT: Sustained.

8 BY MS. GLENNON:

9 Q. Is it possible for a person to have a false
10 memory that seems very real to them?

11 MR. CROWE: Objection.

12 THE COURT: That's overruled.

13 THE WITNESS: Yes, yes, and I have already
14 described the circumstances under which that would
15 -- that there are circumstances under which the
16 ability to form --

17 MR. CROWE: Objection, narrative.

18 THE COURT: Sustained.

19 MS. GLENNON: No. I have nothing further.

20 THE COURT: State, you may cross-examine.

21 CROSS EXAMINATION

22 BY

23 MR. CROWE:

24 Q. Now, Doctor, you are not a neurologist,

1 correct?

2 A. Correct.

3 Q. And you are not an ophthalmologist, are you?

4 A. No.

5 Q. Ophthalmologists study eyes?

6 A. I study eyes, but I am not a an

7 ophthalmologist.

8 Q. You're not a medical doctor at all,

9 correct?

10 A. That's correct.

11 Q. You don't see any patients?

12 A. That's correct.

13 Q. And you're not a physicist?

14 A. Well, I know a lot about physics.

15 Q. You don't have a degree in physics?

16 A. That's correct.

17 Q. You're not an engineer?

18 A. Correct.

19 Q. And you have no knowledge of who committed

20 the murder of Luis and Segundo Reynoso?

21 A. That's correct.

22 Q. It is entirely possible that Marco Lopez

23 shot two people, correct?

24 A. Sure.

1 Q. Let's talk about the conscious experience.
2 That's one of those green boxes up there, right?

3 A. Yes.

4 Q. And that's what you experience with your
5 senses during an event, correct?

6 A. Yes.

7 Q. That's what you see and feel during the
8 event, correct?

9 A. Correct.

10 Q. It's hearing a gunshot, correct?

11 A. Yes.

12 Q. It's hearing a person sneak down creaky
13 front steps, correct?

14 A. True.

15 Q. It's hearing a front door open right next
16 to you, correct?

17 A. That would be an example of conscious
18 experience, yes.

19 Q. It would also be seeing a man walk out of
20 that front door right in front of you?

21 A. Yes.

22 Q. And seeing a man you know turn and face
23 directly at you from eight to ten feet away,
24 correct?

1 A. Seeing a person you believe you know
2 turning and facing you or at least having a memory
3 of that.

4 Q. It would be making a recognition of a
5 person you see practically every day, correct?

6 A. What would be?

7 Q. Him turning from eight feet away to face
8 you.

9 A. I am not understanding. What is your
10 question exactly?

11 Q. Now, with regard to those perceptions, of
12 course you have interviewed Jose Angel Herrera about
13 his perceptions of what he saw that night?

14 A. I never interviewed anybody in this case.
15 I never interviewed anybody in any case I
16 participated in, including this one.

17 Q. You never talked to him about what his
18 perception of those events was, correct?

19 A. I never interviewed anybody in this case
20 about anything.

21 Q. You never talked to him about how he viewed
22 the event, correct?

23 A. I never interviewed anybody in this case
24 about anything.

1 Q. Let's talk a little bit about post-event
2 information.

3 Now, Jose Angel Herrera never viewed any
4 movies in this case, right?

5 A. Not to my knowledge.

6 Q. Never saw, was never introduced the word
7 smashed or the word shot or anything like that,
8 correct?

9 A. Correct.

10 Q. And it's also true that the very first
11 person that he told the police immediately about
12 this that he spoke to an officer by the name of
13 Craig Stout immediately on the scene, correct?

14 MS. GLENNON: Objection.

15 THE WITNESS: Correct.

16 THE COURT: Please phrase it in terms of what he
17 relied upon and if that is something he would
18 typically rely upon in this case.

19 BY MR. CROWE:

20 Q. You have a copy of the police reports,
21 correct?

22 A. Yes.

23 Q. You are aware that Mr. Herrera immediately
24 reported his identification of Marco Lopez, correct?

1 MS. GLENNON: Objection to the form of the
2 question.

3 THE COURT: Overruled.

4 THE WITNESS: Yes.

5 BY MR. CROWE:

6 Q. And that the first person that he
7 identified Marco Lopez to was a police officer by
8 the name of Craig Stout, correct?

9 A. Well, I don't remember his name, but I will
10 take your word for it.

11 Q. That was within minutes of his making his
12 observation of Mr. Lopez?

13 MS. GLENNON: Objection.

14 THE COURT: Please conform your question to what
15 this witness took into account in formulating his
16 opinions.

17 BY MR. CROWE:

18 Q. And based upon your examination of the
19 records, you know that Marco -- that Jose Herrera
20 wasn't asked any questions by any police officers
21 prior to making his disclosure to Officer Stout,
22 correct?

23 A. Yes.

24 Q. So no police officer interviewed before he

1 made his disclosure, correct?

2 A. Correct.

3 MS. GLENNON: Objection.

4 THE COURT: Sustained.

5 BY MR. CROWE:

6 Q. You're aware that he made his
7 identification immediately, correct?

8 A. Yes.

9 Q. There were no identification procedures
10 intervening between his observation and his
11 identification to the police, correct?

12 MS. GLENNON: Objection to the form of the
13 question.

14 THE COURT: Sustained.

15 BY MR. CROWE:

16 Q. Mr. Herrera told the police he saw Marco
17 immediately, correct?

18 A. Correct.

19 Q. Of course you talked to Officer Stout to
20 make sure you had the accurate circumstances of his
21 initial disclosure, correct?

22 A. As I mentioned earlier several times, I
23 haven't interviewed or talked to anybody in this
24 case.

1 Q. Of course you talked to Detective McCarthy?

2 MS. GLENNON: Objection.

3 THE COURT: Sustained. He said he did not
4 interview anybody. We will not go through the whole
5 list. He did not interview anybody. That's his
6 testimony.

7 BY MR. CROWE:

8 Q. All you did was review some notes that were
9 provided to you by the defense, correct?

10 A. Correct.

11 Q. Let's talk about pre-event information.

12 Nobody showed Jose Herrera any cards,
13 correct?

14 A. Not to my knowledge, no.

15 Q. Marco Lopez isn't the ace of spades, is he?

16 MS. GLENNON: Objection.

17 THE COURT: Sustained. Please conform to what is
18 relevant with this witness.

19 BY MR. CROWE:

20 Q. Pre-event information, that's stuff you
21 know about what is going on before you perceive the
22 event, correct?

23 A. Yes.

24 Q. If you don't see the event, you can't have

1 any pre-event information, correct?

2 A. Pre-event information could come from
3 numerous sources. It could come from hearing,
4 seeing, could come from reading. It does not have
5 to require seeing.

6 Q. Now, in this case, the information that you
7 provided related to Jose Herrera is that he heard a
8 shot, correct?

9 A. Yes.

10 Q. That he saw a Marco Lopez coming out of the
11 building shortly thereafter, correct?

12 A. Yes.

13 Q. You have no information about what he knew,
14 about what happened upstairs, do you? There's no
15 information about that whatsoever, correct?

16 MS. GLENNON: Objection.

17 THE COURT: Sustained.

18 BY MR. CROWE:

19 Q. You do not know what Jose Herrera knew
20 about what happened upstairs when he observed Marco
21 Lopez?

22 MS. GLENNON: Objection.

23 THE COURT: Sustained.

24

1 BY MR. CROWE:

2 Q. Let's talk a little bit about lack of
3 attention or functional duration.

4 You would agree that when you hear a shot,
5 your attention is drawn to determining its source,
6 correct?

7 A. Yes.

8 Q. When you hear a person sneaking down the
9 creaky stairs, your attention is drawn to that
10 person, correct?

11 A. One would imagine, yes.

12 Q. When he walks right in front of you, your
13 attention is focussed on him, correct?

14 A. To some degree.

15 Q. When he turns and looks right at you from
16 eight to ten feet away, your attention is focussed,
17 correct?

18 A. Sure, possibly, or you might be focussed on
19 where the gun was and whether it's present now or
20 whether this person might be dangerous because he's
21 carrying a gun or any number of other things.

22 Q. In this case, there is no question of a gun
23 being pointed at anyone, correct?

24 A. I understand that, yes.

1 Q. So Jose Herrera wasn't focussed on any gun,
2 was he?

3 A. No. What I said in answering your question
4 was that he might have if he were a normal person
5 trying to figure out, given he had just heard a
6 gunshot, whether his life was in danger because the
7 person he was seeing was carrying the gun, even if
8 there were no gun visible.

9 Q. Now, it is easier to identify someone you
10 know than a stranger, correct?

11 A. Yes.

12 Q. And as before, you're not a physicist or
13 engineer?

14 MS. GLENNON:

15 Q. Objection?

16 THE COURT: Sustained.

17 BY MR. CROWE:

18 Q. You're not a lighting designer, are you?

19 MS. GLENNON: Objection.

20 THE COURT: Sustained.

21 BY MR. CROWE:

22 Q. You never went to this particular scene,
23 did you? You never went to 1948 on Green Lane in
24 Palatine, correct?

1 A. Correct.

2 Q. And you only reviewed the photographs
3 provided to you by the defense, correct?

4 A. Yes.

5 Q. The reports and notes provided by the
6 defense, correct?

7 A. The reports? What are you referring to by
8 notes?

9 Q. Investigator notes.

10 A. Yes.

11 Q. You don't know exactly what lights there
12 were in that parking lot on March 19, 2014, do you?

13 A. Correct.

14 Q. You don't know what light bulbs were used?

15 A. Correct.

16 Q. You don't know if they're candle power?

17 A. Correct.

18 Q. You never went into Jose's apartment,
19 correct?

20 A. I did not.

21 Q. You never saw where Jose was standing,
22 correct?

23 MS. GLENNON: Objection.

24 THE COURT: Sustained.

1 BY MR. CROWE:

2 Q. You don't know what view he had, correct?

3 A. You mean apart from knowing the
4 configuration of his apartment and outside?

5 Q. You don't know where he was standing?

6 MS. GLENNON: Objection

7 THE COURT: Sustained.

8 BY MR. CROWE:

9 Q. You don't know -- you never inspected the
10 glass on the door, did you?

11 A. Correct.

12 Q. You don't know what the thickness is?

13 A. Correct.

14 Q. Or its clarity?

15 A. Correct.

16 Q. You never saw what the lighting was like
17 inside, correct?

18 A. Correct.

19 Q. You don't know where the lamps were placed
20 or which ones were on or off, do you?

21 A. Correct.

22 Q. You never interviewed any of the other
23 witnesses in this case either?

24 MS. GLENNON: Objection; asked and answered.

1 THE COURT: Sustained.

2 BY MR. CROWE:

3 Q. How much are you getting paid?

4 A. I charge \$250 an hour for casework that I
5 do here in Cook County.

6 Q. How many hours have you billed on this
7 case?

8 A. Well, let's see. You mean for this trip or
9 for the whole case?

10 Q. For the whole thing. How much are you
11 getting paid?

12 A. It will probably be around 40 hours,
13 \$10,000.

14 Q. It's still possible that Jose Angel Herrera
15 was 100 percent accurate when he identified Marco
16 Lopez as the person who emerged from the front door
17 of that building?

18 A. It's either accurate or not, so he could be
19 accurate.

20 Q. Now, as much as we made about the
21 conversation that Jose had with the defendant, Marco
22 Lopez, isn't it true that that conversation was like
23 a month before this occurrence?

24 A. Yes.

1 MS. GLENNON: Objection.

2 THE COURT: If he knows.

3 THE WITNESS: To be honest, I don't remember
4 when the conversation was relative to the shooting.

5 BY MR. CROWE:

6 Q. You don't know the timing of that
7 conversation?

8 A. I don't remember it, right.

9 MR. CROWE: I have nothing further.

10 THE COURT: Redirect.

11 REDIRECT EXAMINATION

12 BY

13 MS. GLENNON:

14 Q. Doctor, whose job is it to determine
15 whether Jose was accurate or inaccurate?

16 A. The jury.

17 MR. CROWE: Objection.

18 THE COURT: Sustained.

19 BY MS. GLENNON:

20 Q. It's entirely possible that Jose Angel
21 Herrera misidentified Marco Lopez?

22 MR. CROWE: Objection.

23 THE COURT: You opened the door. That's
24 allowed.

1 THE WITNESS: Yes, it is.

2 BY MS. GLENNON:

3 Q. It's entirely possible that Marco Lopez did
4 not shoot the two people in that building; is that
5 correct?

6 MR. CROWE: Objection.

7 THE COURT: Overruled.

8 THE WITNESS: That's correct.

9 BY MS. GLENNON:

10 Q. Now, as an expert, do you typically go to a
11 scene and interview witnesses?

12 A. No.

13 MR. CROWE: Objection.

14 THE COURT: Overruled.

15 BY MS. GLENNON:

16 Q. You were provided photographs, right?

17 A. Yes.

18 Q. The photograph I showed you today was a
19 police photograph, right?

20 A. Yes.

21 Q. Taken by the police in this case?

22 A. Right.

23 Q. You were also provided with witness
24 statements with respect to hearing gunshots and what

1 was seen right afterwards, correct?

2 A. Yes.

3 Q. You are aware that there is conflicting
4 information about the front stairs and back stairs,
5 correct?

6 A. Yes.

7 Q. Angel said the front stairs?

8 A. Yes. That's my understanding.

9 Q. And there are also conflicting accounts
10 about the lighting, correct?

11 A. That was also my understanding, yes.

12 Q. It's not your job to determine which one of
13 those people is telling the truth, is it?

14 A. Correct.

15 Q. It's the jury's job to determine that?

16 A. Yes.

17 Q. You're aware through your review of the
18 reports that Jose Angel Herrera was spoken to in the
19 police station immediately following everything that
20 occurred out at 1948 North Green?

21 A. Yes.

22 Q. He was interviewed for hours by police?

23 A. Yes.

24 Q. Doctor, just so I am clear, the reports and

1 the witness interviews that I gave you were
2 documents tendered to me from the police, correct?

3 A. Yes.

4 Q. Police reports?

5 A. That was my understanding.

6 Q. Police interviews?

7 A. Correct.

8 MS. GLENNON: I have nothing further.

9 THE COURT: Any recross?

10 MR. CROWE: No.

11 THE COURT: Ladies and gentlemen, we will take
12 our lunch break. We will reconvene at 1:30. Please
13 do not discuss this case amongst yourselves.

14 (Whereupon the jury left
15 the courtroom and the
16 following proceedings
17 were had:) (WHICH WERE
18 ALL THE PROCEEDINGS HAD)

19 *****

20

21

22

23

24

STATE OF ILLINOIS)
) SS:
COUNTY OF C O O K)

IN THE CIRCUIT COURT OF COOK COUNTY, ILLINOIS
MUNICIPAL DEPARTMENT-THIRD MUNICIPAL DISTRICT

I, JENNIFER ZANICHELLI, an Official
Court Reporter in the Circuit Court of Cook County,
County Department, Third Municipal District, do
hereby certify that I reported in shorthand the
proceedings had at the hearing of the aforementioned
cause; that I thereafter caused the foregoing to be
transcribed, which I hereby certify to be a true and
accurate transcript taken to the best of my ability
of the proceedings had before the Honorable Marc
Martin, Judge of said Court.



Official Court Reporter
CSR# 084-003129

Dated this 7th day of September 2016